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File: USPT

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DOCUMENT-IDENTIFIER: US 6511683 B1

TITLE: Echinacea supplement and method of manufacture

Brief Summary Text (10):

In one aspect, the present invention provides Echinacea compositions including standardized amounts of at least two Echinacea components. More preferably the Echinacea compositions of the present invention include standardized amounts of at least three Echinacea components. In this context the term "standardized amount", or grammatical equivalents thereof, means a desired, quantified amount of an Echinacea component. Presently preferred Echinacea components are Echinacea polysaccharides, Echinacea alkylamides and cichoric acid. Presently preferred Echinacea extracts useful for preparing the Echinacea compositions of the present invention are extracts enriched in cichoric acid (most preferably cichoric acid prepared in accordance with the present invention), Echinacea alkylamides (most preferably Echinacea alkylamides prepared in accordance with the present invention) or Echinacea polysaccharides (most preferably Echinacea polysaccharides prepared in accordance with the present invention). The Echinacea compositions of the present invention can be in liquid form, gel form or solid form, such as a powder, or tablets, or capsules, and are preferably adapted for administration (more preferably oral administration) to a human being.

Detailed Description Text (16):

In another aspect, the present invention provides methods for preparing Echinacea compositions, the methods including the step of combining amounts of at least two Echinacea components, preferably three Echinacea components, sufficient to yield an Echinacea composition including standardized amounts of each of the combined Echinacea components. In this context the term "standardized amount", or grammatical equivalents thereof, means a desired, quantified amount of an Echinacea component. Presently preferred Echinacea components useful for preparing Echinacea compositions, in accordance with the present invention, are capable of inducing a biological response, such as stimulation of immune function, when introduced into a living organism. By way of non-limiting example, Echinacea components useful for preparing Echinacea compositions, in accordance with the methods of the present invention, include: essential oils, alkamides (including alkylamides), cichoric acid, polysaccharides, polyalkynes and polyalkenes. Presently preferred Echinacea components useful for preparing Echinacea compositions, in accordance with the methods of the present invention, are cichoric acid (most preferably cichoric acid prepared in accordance with the present invention), Echinacea alkylamides (most preferably Echinacea alkylamides prepared in accordance with the present invention) and Echinacea polysaccharides (most preferably Echinacea polysaccharides prepared in accordance with the present invention). The Echinacea compositions prepared in accordance with the present invention can be in liquid form, gel form or solid form, such as a powder or capsules, and are preferably adapted for administration (more preferably oral administration) to a human being.

Other Reference Publication (80):

Molinatorres, J., Salgado-Garciglia, Ramirez-Chavez, E., and Del Rio, R., "Purely Olefinic Alkamides in *Heliopsis longipes* and *Acmella* (*Spilanthes*) *oppositifolia*," *Biochemical Systematics and Ecology*, 24(1):43-47 (1996).

Other Reference Publication (88):

Parnham, M.J., "Benefit-Risk Assessment of the Squeezed Sap of the Purple Coneflower

(*Echinacea purpurea*) for Long Term Oral Immunostimulation," *Phytomedicine*,  
3 (1):95-102 (1996).